AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An epitaxial substrate for <u>a</u> compound semiconductor light-emitting device comprising:

a double-hetero light-emitting layer structure including a pn junction; and a p-type layer side layer structure formed in contact with the light-emitting layer structure including in order from the layer in contact with the light-emitting layer structure an n-type first layer represented by $In_xAl_yGa_zN$ ($x+y+z=1, 0 \le x \le 1, 0 \le y \le 1, 0 \le z \le 1$), a p-type second layer represented by $In_uAl_vGa_wN$ ($u+v+w=1, 0 \le u \le 1, 0 \le v \le 1, 0 \le w \le 1$) and a p-type third layer represented by $In_pAl_qGa_rN$ ($p+q+r=1, 0 \le p \le 1, 0 \le q \le 1, 0 \le r \le 1$), each of the three neighbors being formed in contact with its neighbor.

- 2. (Currently Amended) [[An]] <u>The</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 1, wherein a thickness d_1 (Å) of the first layer is in the range of $5 \le d_1 \le 200$ and a thickness d_2 (Å) of the second layer is in the range of $5 \le d_2 \le 30,000$.
- 3. (Withdrawn, Currently Amended) A method for producing [[an]] the epitaxial substrate for the compound semiconductor light-emitting device of claim 1, characterized in that wherein a growth temperature T₁ of the first layer and a

growth temperature T_2 of the second layer are made to satisfy the relationship $T_1 \le T_2$.

- 4. (Withdrawn, Currently Amended) A method for producing [[an]] the epitaxial substrate for the compound semiconductor light-emitting device of claim 2, characterized in that wherein a growth temperature T_1 of the first layer and a growth temperature T_2 of the second layer are made to satisfy the relationship $T_1 \le T_2$.
- 5. (Withdrawn, Currently Amended) [[A]] <u>The</u> method for producing [[an]] <u>the</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 3 or 4, wherein the second layer is grown to satisfy the relationships:

$$5 \le d_2 \le 30,000$$
 $(900 \le T_2 \le 1,150)$

$$T_2 \ge 0.4 d_2 + 700$$
 $(700 \le T_2 < 900),$

where T_2 (°C) is the growth temperature of the second layer and d_2 (Å) is the thickness of the second layer.

6. (Withdrawn, Currently Amended) [[A]] <u>The</u> method for producing [[an]] <u>the</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 3 or 4, wherein the second layer and the third layer are grown by a regrowth method after growth of the first layer.

- 7. (Withdrawn, Currently Amended) [[A]] <u>The</u> method for producing [[an]] <u>the</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 5, wherein the second layer and the third layer are grown by a regrowth method after growth of the first layer.
- 8. (Currently Amended) A light-emitting device utilizing [[an]] the epitaxial substrate for the compound semiconductor light-emitting device of claim 1 or claim 2, and an electrode.
- 9. (Withdrawn) A light-emitting device utilizing the production method of claim 3.
- 10. (Original, Currently Amended) An epitaxial substrate for <u>a</u> compound semiconductor light-emitting device comprising:

a double-hetero light-emitting layer structure including a pn junction; and a p-type layer side layer structure formed in contact with the light-emitting layer structure including in order from the layer in contact with the light-emitting layer structure an n-type first layer represented by $In_xAl_yGa_zN$ (x + y + z = 1, 0 \leq x \leq 1, 0 \leq y \leq 1, 0 \leq z \leq 1), an n-type second layer represented by $In_uAl_vGa_wN$ (u + v + w = 1, 0 \leq u \leq 1, 0 \leq v \leq 1, 0 \leq w \leq 1) and a p-type third layer represented by

 $In_pAl_qGa_rN$ (p + q + r = 1, $0 \le p \le 1$, $0 \le q \le 1$, $0 \le r \le 1$), each of the three neighbors being formed in contact with its neighbor.

- 11. (Currently Amended) [[An]] <u>The</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 10, wherein the p-type dopant density of the <u>n-type</u> second layer is not less than 1×10^{17} cm⁻³ and not greater than 1×10^{21} cm⁻³, and the n-type carrier density of the <u>n-type</u> second layer is not greater than 1×10^{19} cm⁻³.
- 12. (Currently Amended) [[An]] <u>The</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 10, wherein a thickness d_1 (Å) of the first layer is in the range of $5 \le d_1 \le 200$ and a thickness d_2 (Å) of the second layer is in the range of $5 \le d_2 \le 500$.
- 13. (Currently Amended) [[An]] <u>The</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 11, wherein a thickness d_1 (Å) of the first layer is in the range of $5 \le d_1 \le 200$ and a thickness d_2 (Å) of the second layer is in the range of $5 \le d_2 \le 500$.
- 14. (Withdrawn, Currently Amended) A method for producing [[an]] the epitaxial substrate for the compound semiconductor light-emitting device of claim

10, 11, 12 or 13, characterized in that wherein a growth temperature T_1 of the first layer and a growth temperature T_2 of the second layer are made to satisfy the relationship $T_1 \le T_2$.

15. (Withdrawn, Currently Amended) [[A]] <u>The</u> method for producing [[an]] <u>the</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 14, wherein the second layer is grown to satisfy the relationships:

$$T_2 \ge 0.4 d_2 + 700$$
 (5 $\le d_2 \le 500$)

$$1,150 \ge T_2 \ge 700$$
,

where T_2 (°C) is the growth temperature of the second layer and d_2 (Å) is the thickness of the second layer.

16. (Withdrawn, Currently Amended) [[A]] <u>The</u> method for producing [[an]] <u>the</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 14, wherein the second layer and the third layer are grown by a regrowth method after growth of the first layer.

17. (Withdrawn, Currently Amended) [[A]] <u>The</u> method for producing [[an]] <u>the</u> epitaxial substrate for <u>the</u> compound semiconductor light-emitting device as claimed in claim 15, wherein the second layer and the third layer are grown by a regrowth method after growth of the first layer.

- 18. (Currently Amended) A light-emitting device utilizing [[an]] the epitaxial substrate for the compound semiconductor light-emitting device of claim 10, 11, 12 or claim 13, and an electrode.
- 19. (Withdrawn) A light-emitting device utilizing the production method of claim 14, 15, 16 or claim 17.
- 20. (New) The epitaxial substrate for the compound semiconductor lightemitting device as claimed in claim 10, wherein the n-type second layer has a ptype dopant.
- 21. (New) An epitaxial substrate for a compound semiconductor lightemitting device comprising:

a double-hetero light-emitting layer structure including a pn junction; and a p-type layer side layer structure formed in contact with the light-emitting layer structure including in order from the layer in contact with the light-emitting layer structure an n-type first layer represented by AlGaN, a p-type second layer represented by AlGaN: Mg and a p-type third layer represented by GaN: Mg, each of the three neighbors being formed in contact with its neighbor.